Appalachian STATE UNIVERSITY BOONE, NORTH CAROLINA

Computational Cell Biology: An Introduction To Computer Modeling In Molecular Cell Biology (website)

https://web.archive.org/web/20041202234524/http://www.compcell.appstate.edu/

Edited by: Chris Fall, **Eric Marland**, John Tyson, and John Wagner

Abstract

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This web site is a support site for the new text from Springer-Verlag. The text begins by slowing building up to basic compartmental model of cells. It covers ion channels, transporters, chemical interactions, and shows how to integrate them into a full model of the cell. With this done, the book then progress to more specialized topics such as spatial modeling, cell to cell communication, and molecular motors.

Fall, C., **Marland, E.**, Tyson, J., & Wagner, J. (2002). Computational Cell Biology: An Introduction To Computer Modeling In Molecular Cell Biology (website). Springer-Verlag. Publisher version of record available at: https://web.archive.org/web/20041202234524/http://www.compcell.appstate.edu/. NC Docks permission to re-print granted by author(s).

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Computational Cell Biology

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Updates: **10/29/02 -** **Virtual Cell** implementation is now supported, follow the links
10/29/02 - Errors are showing up, I haven't verified them yet, but they are listed.

Online Preface - Who is it for	Contributing Authors - Who did this
Course Ideas - How to use it	Dedication - The man, the plan, ...
Table of Contents - Exactly what's in it	Get XppAut - From the Bard himself
Supplementary Exercises - Submit your own	Computer Code - Downloading and submitting in a variety of formats - Xpp, Virtual Cell, and MATLAB.
Exercise Hints - Write down what you would have written if you did know	Solutions Manual - Contribute your solutions in a variety of formats - Xpp, Virtual cell, MATLAB, ...
Known Errors - Even the embarrassing ones	Supplemental Texts - Mathematics and biology
Get info and Order On-line from Springer-Verlag also available from Barnes & Noble and Amazon	

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